

DATE

~~SECRET~~

1	DM	9
2		10
3		11
4		12
5	IDEA	13
6		14
7		15
8		16

TO :

FROM :

ACTION:

INFO :

IN93369

OSA 1-20

10.1

TO INFO CITE

25X1A6c SECRET 100440Z CITE 6384

25X1A6c

25X1A6c

PRIORITY INFO

IDEALIST LOGS-MAINT

NO NITE ACTION

REF: 6559

25X1A6c

6372

SUBJ: PYLON TANK RELEASE MALFUNCTION, ART 373.

1. DURING MISSION HT-67-302 ON 09 AUG, PILOT ACTUATED ARM AND RELEASE SWITCH TO DROP PYLON TANKS, RESULTS WERE NEGATIVE. REPEATED ATTEMPTS WERE MADE AND THE R/H PYLON JETTISIONED ON 5TH TRY. THE L/H TANK WOULD NOT DROP ALTHOUGH 5 OR 6 ADDITIONAL ATTEMPTS WERE MADE. MISSION WAS COMPLETED WITH PYLONG & TANK REMAINING IN POSITION UNTIL ART WAS TOWED INTO HANGAR.

2. APPROX 580 IN LBS TORQUE WAS REQUIRED TO LOOSEN THE NUT ON THE 75W32-8 CLEVIS BOLT. AFTER THE PYLON WAS REMOVED THE CLEVIS BOLT WAS FOUND FROZEN IN POSITION. REMOVAL OF THE 75W32-1 DOOR REVEALED THAT THE CLEVIS BOLT WAS

~~SECRET~~

GROUP 1
EXCLUDED FROM AUTO-
MATIC DOWNGRADING
AND DECLASSIFICATION

25X1A6c

IN93369 [REDACTED] 6384)

S E C R E T

PAGE 2

WEDGED SOLIDLY BETWEEN THE AN24-25 BOLT AND THE 75W27-4 HOOK. THE ACTUATOR AND HOOK HAD OVERTRAVELED, FORCING THE CLEVIS BOLT OUT OF LINE. CONSIDERABLE MOISTURE WAS ALSO FOUND IN THE TANK SUPPORT CAVITY.

3. ACTUATORS WERE REMOVED AND NEW UNITS INSTALLED. WITH 600 INCH LBS TORQUE APPLIED TO THE CLEVIS BOLT NUTS THE R/H NEWLY FITTED PYLON WOULD NOT DROP ALTHOUGH IT'S PREDECESSOR HAD DROPPED ON THE 5TH TRY DURING FLIGHT. THE TANK WOULD NOT DROP UNTIL THE TORQUE WAS REDUCED TO THE MINIMUM OF 500 LBS. THE NEW ACTUATOR OPERATION ALSO SLOWED DOWN CONSIDERABLY UNDER LOAD.

25X1A2g

4. [REDACTED] BELIEVES LIMIT SW MALFUNCTIONED ON L/H ACTUATOR IN FLT. ALSO SUSPECT MOISTURE FREEZING BETWEEN THE HOOKS AND SUPPORTS PLUS DIFFERENTIALS IN COEFFICIENTS OF EXPANSION AND INSUFFICIENT CLEARANCES BETWEEN MOVING COMPONENTS DURING COLD SOAK MAY HAVE CREATED SUFFICIENT FRICTION TO EXCEED THE ACTUATOR CAPACITY WHEN R/H PYLON FAILED TO JETTISON.

25X1A2g

25X1A2g

5. [REDACTED] SUGGESTS [REDACTED] INVESTIGATE PROBLEM SOONEST AND ADVISE POSSIBLE FIX.

25X1A2g

25X1A2g

25X1C8a

6. FOR [REDACTED] RECOMMEND SLIPPERS BE UTILIZED ON SPECIAL UPCOMING OPERATIONS REQUIRING EXTERNAL FUEL. [REDACTED] AND [REDACTED] IN AGREEMENT USE OF SLIPPERS ON ART 383 IS BEST COURSE OF ACTION CONSIDERING TIME ELEMENT REMAINING PRIOR TO PROPOSED OPERATION. WILL DISCUSS FURTHER WITH [REDACTED] UPON HIS ARRIVAL 14 AUG.

25X1A9a

S E C R E T TOR: 100506Z AUG 67

S E C R E T